

Environmental Characteristics of Next Generation Commercial Hydrofluorocarbons: HFO-1234yf and HFO-1336mzz

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HFO-1234yf ($\text{CF}_3\text{CF}=\text{CH}_2$) and HFO-1336mzz ($\text{CF}_3\text{CH}=\text{CHCF}_3$) are being commercialized as replacements for the current generation of hydrofluorocarbon and hydrocarbon refrigerants and foam expansion agents. These unsaturated compounds are short-lived in the atmosphere and have modest environmental footprints. We will discuss the environmental characteristics of the title compounds and their principal atmospheric degradation products.

References

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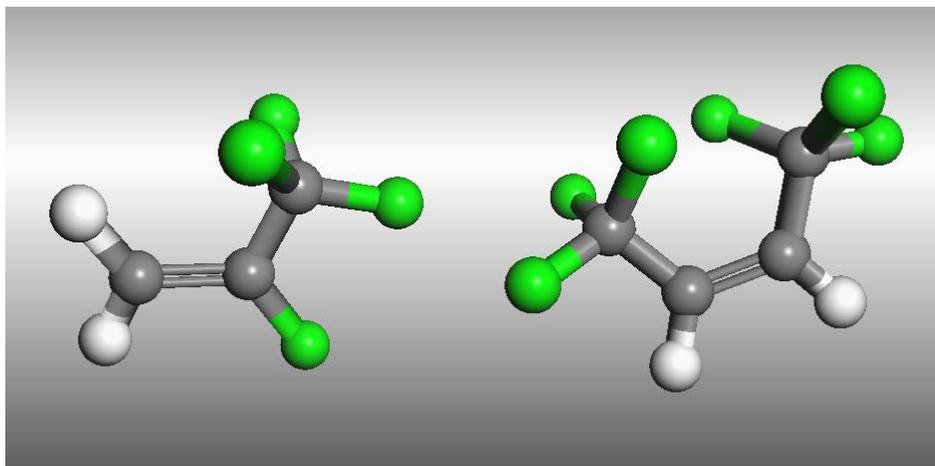


Figure. Structures of HFO-1234yf and the Z-isomer of HFO-1336mzz.